

Note: Last day analyzed is 31 Dec 2011 for STA and STB. List is updated on 30 July 2012.

Interplanetary Shocks at STEREO A

#	Year	Month	Day	Hour	Minute	Second	B_{down}/B_{up}^1	θ_{Bn}^2	β^3	Mach Num. ⁴	32-Hz data availability ⁵	Forward/Reverse Shock
1	2007	1	14	19	35	8	1.19	67.6	DG	1.1	Y	F
2	2007	2	12	8	10	6	1.27	47.3	DG	1.28	N	F
3	2007	2	12	8	39	13	1.36	76.6	DG	1.28	N	F
4	2007	4	21	18	59	15	1.57	76.6	3.91	1.4	N	F
5	2007	4	23	6	53	44	1.32	73.0	1.67	1.22	N	R
6	2007	5	7	8	11	54.4	1.72	80.3	4.35	1.53	N	F
7	2007	5	8	20	38	34	1.39	24.8	1.32	1.62	N	R
8	2007	6	9	13	15	50	1.28	67.0	1.81	1.22	N	F
9	2007	6	10	12	55	35	1.22	64.0	0.76	1.18	N	R
10	2007	7	4	22	9	40	1.35	38.9	2.02	1.43	Y	R, not very sharp B change
11	2007	7	11	20	22	25	2.25	61.8	1.04	2.2	N	R
12	2007	8	25	20	30	1	2.01	70.4	3.85	1.83	Y	F
13	2007	9	15	1	54	34.5	1.36	75.4	1.25	1.26	Y	F
14	2007	9	15	15	35	3	1.3	70.3	0.70	1.22	N	R
15	2007	9	23	11	31	58	1.36	79.4	0.75	1.28	N	R
16	2007	9	30	11	9	6	1.55	76.5	0.30	1.42	N	R
17	2007	10	18	16	46	12	1.19	21.4	3.24	1.5	Y	F
18	2008	1	8	1	48	30	1.36	66.3	0.57	1.28	N	R
19	2008	2	29	22	51	2.5	1.41	84.5	6.38	1.29	N	F
20	2008	3	8	18	16	32	1.31	66.8	1.67	1.28	Y	F
21	2008	3	9	19	50	7.33	1.59	79.4	1.39	1.44	N	R
22	2008	3	29	18	12	58	1.25	35.5	1.23	1.28	N	R
23	2008	4	8	7	34	40	1.19	51.6	0.92	1.16	N	R
24	2008	4	24	13	6	55	2.46	81.9	4.11	2.25	N	F
25	2008	5	11	6	31	9.5	1.67	75.5	DG	1.52	N	F
26	2008	5	19	9	18	42.5	1.48	76.7	1.14	1.36	Y	F, strong upstream waves
27	2008	5	21	0	41	35	1.57	38.9	1.13	1.61	Y	
28	2008	7	5	0	47	53.67	1.65	43.6	0.85	1.62	Y	F
29	2008	9	16	13	49	29	1.71	79.6	2.36	1.54	N	F
30	2008	9	17	8	8	21.5	1.42	68.0	0.97	1.32	N	R
31	2008	10	12	17	12	56	1.5	83.7	9.24	1.38	N	F
32	2008	10	26	17	17	21	1.49	60.1	2.30	1.41	Y	F
33	2008	10	31	3	24	55	1.54	42.7	1.39	1.6	N	F
34	2008	11	1	7	59	17	1.65	60.9	1.84	1.58	Y	R, Vp increase is not sharp F
35	2008	11	9	0	38	46	1.34	42.6	17.74	1.45	N	
36	2008	11	28	16	44	26	1.45	46.8	5.51	1.5	Y	F, strong plasma signatures, upstream and downstream waves
37	2008	12	6	5	42	30	1.42	45.2	7.50	1.5	Y	

38	2008	12	25	9	45	8	1.12	55.0	2.58	1.11	N	F
39	2009	1	25	18	22	52.33	1.46	79.4	1.14	1.34	Y	F, downstream waves
40	2009	2	13	10	20	58	1.42	61.2	2.00	1.35	N	F
41	2009	2	18	1	54	56	1.79	60.1	0.94	1.7	Y	R, downstream waves
42	2009	3	9	20	17	19	1.65	44.0	10.08	1.82	Y	F, downstream waves
43	2009	4	27	21	42	22	1.45	39.2	2.00	1.55	N	F
44	2009	6	3	17	7	44	1.3	70.7	0.30	1.23	N	F
45	2009	6	30	5	14	45	1.22	32.5	1.00	1.27	N	R
46	2009	7	26	14	42	5	1.23	42.9	1.00	1.22	N	F
47	2009	9	8	5	30	54	1.43	32.6	20.00	1.87	N	F
48	2009	10	16	14	56	55	1.25	58.9	1.00	1.21	Y	F
49	2009	11	26	23	6	27	1.3	73.1	3.01	1.2	N	F, weak plasma signatures, upstream waves
50	2009	12	1	4	9	10	1.52	69.4	1.49	1.4	N	R, clear plasma signatures
51	2009	12	8	23	37	45.3	1.92	75.0	27.69	1.72	Y	F, clear plasma signatures, downstream waves
52	2009	12	14	6	8	59	1.2	64.9	1.74	1.15	Y	F, clear plasma signatures except no Tp increase, strong upstream and
53	2009	12	22	23	51	15	1.59	30.0	0.95	1.78	Y	R, weak plasma signatures, not a neat B rise
54	2009	12	31	12	52	31.5	1.67	53.7	7.54	1.68	Y	F, clear plasma signatures, upstream waves
55	2010	2	5	3	33	13	2.28	49.3	3.77	2.7	Y	F, clear plasma signatures, upstream and downstream
56	2010	2	15	4	41	31	1.55	71.6	1.57	1.42	N	F, clear plasma signatures, downstream waves
57	2010	3	11	19	9	23	1.42	50.7	2.91	1.42	Y	F, plasma signatures except slow Tp increase, upstream waves
58	2010	3	15	13	39	26	1.49	47.4	1.90	1.5	Y	F, plasma signatures
59	2010	4	4	1	10	4.75	1.47	84.3	1.23	1.35	Y	F, upstream and downstream waves, clear plasma signatures
60	2010	4	23	0	34	36	1.55	73.5	2.78	1.4	N	F, plasma signatures except no Tp increase, downstream waves
61	2010	5	8	9	24	7	1.51	82.1	0.66	1.39	Y	R, weak plasma signatures, downstream waves
62	2010	5	30	14	59	19	1.63	58.1	2.76	1.56	N	F, plasma signatures, upstream waves
63	2010	6	3	8	36	28.5	2.12	67.2	14.62	2	Y	F, downstream waves, plasma signatures
64	2010	6	5	7	30	10	1.37	63.8	0.37	1.3	N	R, downstream waves, plasma signatures

65	2010	8	20	16	13	39.5	2.91	56.8	0.75	4.05	Y	F, upstream and downstream waves, clear plasma signatures
66	2010	8	21	16	57	26	1.19	69.3	0.27	1.15	N	R, upstream waves, weak plasma signatures
67	2010	9	7	8	29	6.4	1.37	86.7	1.21	1.28	Y	F, upstream and downstream waves, plasma signatures
68	2010	9	11	6	58	47	2.08	75.0	1.42	1.92	Y	F, upstream and downstream waves, plasma signatures
69	2010	9	17	22	33	43.5	1.43	53.3	0.54	1.36	N	F, upstream waves, plasma signatures
70	2010	10	31	10	4	13	1.58	40.7	0.39	1.52	N	R, upstream and downstream waves, plasma signatures
71	2010	11	16	19	25	53.5	1.09	15.5	DG	1.18	Y	R, downstream waves, weak plasma signatures
72	2010	12	4	0	10	21	1.86	70.4	3.70	1.7	N	F, upstream and downstream waves, plasma signatures
73	2010	12	14	17	15	32.5	1.46	71.0	1.98	1.35	Y	F, downstream waves, weak plasma signatures
74	2011	1	17	18	31	0	1.45	40.9	0.65	1.42	N	R, waves in the transition region
75	2011	1	23	17	6	3.2	1.48	59.3	1.76	1.4	Y	F, upstream waves, Vp and Np increase, but Tp does not increase promptly
76	2011	1	25	0	6	27	1.21	59.1	0.61	1.16	N	R, upstream waves (not sure of the origin), ICWs upstream, field change is not very sharp, changes of plasma parameters are not abrupt
77	2011	2	18	17	43	0.25	1.22	72.2	2.32	1.16	Y	F, large-amplitude upstream waves of fs/c ~ 1.4 Hz, increases of plasma parameters are small
78	2011	3	9	6	47	40	1.62	28.7	6.23	2.56	Y	F, no upstream or downstream waves, clear plasma signatures

79	2011	3	19	11	24	39.3	1.84	84.3	1.06	1.66	N	F, upstream and downstream waves, prominent plasma signatures
80	2011	3	22	3	57	37.7	1.5	71.6	0.96	1.38	Y	F, large-amplitude upstream waves of fs/c ~ 1.5 Hz, clear plasma parameters
81	2011	3	22	18	21	6.3	2.02	77.5	0.18	1.9	Y	F, strong field increase, clear Vp, Np, Tp increases, but there are holes of Np and Tp before it
82	2011	3	31	12	37	10	1.14	29.1	1.58	1.2	Y	R, plasma signatures, low frequency upstream waves, a dip in B downstream, bidirectional suprathermal electron flux upstream
83	2011	4	9	13	39	33	1.17	76.9	DG	1.12	Y	R, no upstream or downstream waves, plasma data gap
84	2011	4	11	12	8	0	1.89	71.4	0.75	1.74	Y	F, downstream waves, clear plasma signatures, Vp increase lasts < 1hr
85	2011	4	22	10	59	16.8	1.21	77.9	0.68	1.16	N	F, upstream and downstream waves, weak plasma signatures
86	2011	5	7	11	32	53	1.62	82.0	0.63	1.48	N	R, clear plasma signatures, sharp B decrease, there are current sheets near the shock though
87	2011	6	4	18	48	50	1.6	20.7	1.46	3.5	Y	R, clear plasma signatures, B decrease takes 2.5 seconds
88	2011	6	5	18	59	0.5	1.57	52.6	1.50	1.54	Y	F, clear plasma signatures
89	2011	6	9	22	40	53	1.44	60.2	1.82	1.38	N	F, weak plasma signatures, upstream waves, increase of suprathermal electron flux
90	2011	6	12	0	2	24	1.28	49.6	1.18	1.25	N	R, weak plasma signatures, two B decreases separated by 16 s, this is the 2nd one to match the time of plasma data

91	2011	6	16	3	10	22.5	1.61	25.4	2.68	2.7	Y	F, abrupt plasma changes, upstream and downstream waves
92	2011	7	12	3	47	4	1.2	48.4	0.35	1.16	Y	F, abrupt plasma changes, downstream waves, a dip of B in 4 minutes
93	2011	7	23	9	41	9.3	1.43	38.4	4.18	1.6	N	F, clear plasma signatures, upstream and downstream waves, B decreased in 40 min
94	2011	7	24	22	36	5	1.03	13.3	1.61	1.16	Y	R, plasma signatures, waves in upstream, downstream, and ramp
95	2011	8	6	12	42	39.8	2.18	52.2	1.88	2.32	Y	F
96	2011	8	11	5	38	57.5	2.65	73.9	DG	2.7	N	F
97	2011	8	13	19	43	20.5	2	83.1	0.38	1.86	Y	F
98	2011	9	8	16	1	27	1.28	60.7	1.40	1.23	Y	F
99	2011	9	11	8	51	29.3	1.64	89.0	0.18	1.5	Y	F
100	2011	9	21	22	35	45	1.06	23.1	0.81	1.07	N	F
101	2011	9	24	8	30	40.5	1.29	70.1	5.49	1.22	Y	F
102	2011	9	28	3	54	29.5	1.44	57.2	0.46	1.36	Y	F
103	2011	10	2	6	53	15	1.1	32.9	0.81	1.11	N	F
104	2011	10	3	2	28	25	1.49	75.5	0.69	1.38	N	F
105	2011	10	6	3	55	7	1.32	53.1	0.83	1.29	Y	F
106	2011	10	7	17	15	23.5	1.77	54.2	3.47	1.77	N	F
107	2011	10	23	20	59	0.4	1.28	76.8	0.66	1.22	Y	F
108	2011	10	25	4	51	14.3	1.9	76.3	0.89	1.74	Y	F
109	2011	11	5	21	12	9.6	1.48	70.9	1.78	1.38	N	F
110	2011	11	6	12	35	14	1.61	27.8	0.46	1.67	Y	R
111	2011	11	20	21	50	23	1.48	67.4	1.06	1.39	N	R
112	2011	11	23	17	35	5	1.52	82.2	0.67	1.41	N	R
113	2011	11	25	21	39	3.7	1.36	55.2	0.87	1.31	Y	F
114	2011	11	26	18	9	24	1.51	22.9	0.85	1.79	Y	F
115	2011	11	28	14	51	25.5	1.83	61.7	0.62	1.73	N	F
116	2011	12	12	3	47	21	1.36	80.7	0.94	1.27	Y	R
117	2011	12	17	2	5	7	1.8	54.2	1.69	1.77	Y	F

118	2011	12	21	0	30	0	1.64	68.9	0.39	1.5	Y	R
119	2011	12	21	9	27	28	1.16	10.8	1.91	2.3	Y	F
120	2011	12	28	1	28	46	1.63	75.9	4.55	1.47	Y	F
121	2011	12	28	20	47	9	2.01	51.8	0.39	1.98	Y	R

Interplanetary Shocks at STEREO B

#	Year	Month	Day	Hour	Minute	Second	$B_{\text{down}}/B_{\text{up}}$	θ_{Bn}	β	Mach Num.	32-Hz data availability	Forward/Reverse Shock
1	2007	1	14	20	1	27	1.24	65.4	DG	1.18	N	F
2	2007	4	22	6	9	27.5	1.58	39.6	5.70	1.81	Y	F
3	2007	4	23	13	21	10	1.65	33.9	4.32	2.12	N	developing R, with waves
4	2007	5	7	9	42	49	1.65	62.5	2.24	1.55	N	F, downstream waves, clear plasma signatures, 1 minute away from a current sheet
5	2007	5	17	21	23	19	1.37	61.7	2.09	1.31	N	F
6	2007	5	22	17	29	52.5	1.33	80.7	0.24	1.25	Y	F
7	2007	7	11	7	44	44	1.97	62.7	0.94	1.83	N	R
8	2007	7	13	22	0	30	1.57	48.7	1.65	1.56	Y	F
9	2007	7	20	1	22	15	1.45	51.6	0.44	1.38	N	F
10	2007	8	10	16	39	10	1.69	34.3	1.63	2.05	Y	R
11	2007	8	14	16	31	4	1.25	57.0	2.66	1.22	N	F
12	2007	8	24	14	16	33	1.58	69.0	2.09	1.45	N	F
13	2007	9	2	0	9	16.5	1.61	63.2	1.33	1.44	N	R
14	2007	9	13	18	34	19	1.67	70.8	7.02	1.52	Y	F
15	2007	9	19	18	15	3	1.64	65.6	29.46	1.52	N	F
16	2007	9	28	5	53	27	1.61	73.9	2.31	1.46	N	R
17	2007	11	9	0	10	8	2.04	61.9	2.35	1.96	N	F
18	2007	11	19	13	49	36	1.84	62.0	2.34	1.84	N	F
19	2007	12	8	23	2	2.5	1.43	75.5	4.88	1.33	Y	F
20	2007	12	16	0	16	33.5	1.16	82.4	3.07	1.12	N	weak F
21	2008	2	9	18	42	7.5	1.90	53.1	2.21	1.92	Y	R
22	2008	4	4	7	41	44.5	1.40	75.1	1.33	1.3	N	R
23	2008	4	29	14	10	8.5	1.97	68.9	0.25	1.86	N	F
24	2008	6	6	15	35	46	1.75	38.4	6.98	2.2	N	F
25	2008	6	12	21	35	20.75	1.35	82.8	0.63	1.27	N	F
26	2008	7	19	7	28	18	1.34	73.5	2.21	1.25	N	F
27	2008	7	20	22	27	38.08	2.11	63.8	2.43	2.08	N	F
28	2008	7	21	10	30	40	2.23	60.8	1.60	2.2	Y	R, gradual variation of B

29	2008	8	6	21	17	40	1.55	60.8	1.02	1.45	N	F
30	2008	8	16	1	16	1.5	1.49	73.6	0.87	1.38	N	F
31	2008	9	29	13	8	2	1.31	70.4	1.51	1.24	N	R, little change of Tp
32	2008	9	30	22	20	37	1.54	40.5	2.60	1.68	Y	R, plasma signatures
33	2008	11	21	21	16	58	1.59	73.6	1.84	1.46	N	F
34	2008	12	7	4	35	30	1.27	42.0	5.14	1.34	N	F
35	2008	12	15	2	12	22	1.31	70.2	2.47	1.23	N	F
36	2009	2	11	10	20	58	1.52	50.2	3.00	1.56	Y	R, upstream waves
37	2009	2	22	12	12	14	1.33	73.6	2.20	1.26	N	F
38	2009	3	10	14	47	34	2.21	76.7	0.59	2.1	N	R, upstream and downstream waves
39	2009	3	14	9	46	30	1.5	33.6	DG	1.6	N	F, many waves
40	2009	3	24	18	42	17	1.65	44.3	1.41	1.7	N	R, downstream waves
41	2009	6	5	9	29	49.17	1.61	72.6	9.10	1.44	N	F
42	2009	6	19	0	23	34	1.95	80.1	5.87	1.73	Y	F
43	2009	7	18	11	35	15.3	1.74	83.4	3.75	1.55	N	F
44	2009	7	19	2	8	36	1.96	56.6	1.06	1.9	N	R, upstream waves
45	2009	8	5	22	35	17	1.57	47.5	4.69	1.62	Y	F
46	2009	8	7	5	24	29.5	1.70	68.4	1.75	1.6	Y	R
47	2009	8	30	2	49	50.5	1.42	75.7	2.48	1.34	Y	F
48	2009	8	31	3	40	46	1.55	85.8	0.27	1.43	N	F, weak downstream wave
49	2009	10	2	15	43	50.75	1.68	46.5	16.50	2.3	Y	F, plasma signatures, upstream and downstream
50	2009	10	4	17	46	47.5	1.44	46.4	21.92	1.52	N	R
51	2009	10	26	11	27	33	2.05	43.1	6.40	2.6	Y	F
52	2009	11	3	1	7	55	1.43	50.6	8.38	1.5	Y	F, upstream waves
53	2009	11	8	15	54	23	1.35	40.7	3.43	1.45	Y	F, upstream waves
54	2009	11	26	16	18	56	1.43	29.0	12.42	2	Y	F, upstream and downstream waves
55	2009	12	13	19	50	14	1.54	52.6	0.22	1.45	N	R, clear plasma signatures
56	2010	2	13	11	52	15	1.24	71.0	0.50	1.18	Y	F, downstream waves, plasma signatures
57	2010	2	14	7	49	55	1.29	40.4	0.10	1.22	Y	R, upstream waves last short, downstream waves last long, Tp does not decrease
58	2010	2	28	19	49	55	1.22	68.6	0.90	1.17	Y	F, upstream waves, clear plasma signatures
59	2010	3	9	4	17	17	1.33	65.5	4.04	1.27	Y	F, B increases gradually; plasma signatures are clear
60	2010	3	11	8	49	24	1.53	72.7	0.21	1.42	Y	R, downstream waves, plasma signatures
61	2010	3	20	10	51	22	1.26	42.1	0.44	1.22	Y	R, many upstream waves
62	2010	4	26	15	2	50	1.42	59.4	0.70	1.34	Y	F, waves at the foot
63	2010	5	15	1	19	2	1.89	63.9	6.75	1.76	Y	F, waves at the shock

64	2010	6	2	20	46	30	1.59	23.2	0.89	2	Y	R, clear plasma signatures, upstream waves
65	2010	6	7	4	8	48	1.97	84.5	3.17	1.74	Y	F, nice
66	2010	6	11	4	41	28	1.42	65.1	1.11	1.32	Y	F, upstream and downstream waves
67	2010	6	12	4	59	20	1.65	62.6	0.56	1.54	N	R, clear plasma signatures
68	2010	6	30	5	45	0	1.48	44.0	3.97	1.55	N	F, clear plasma signatures, upstream and downstream
69	2010	7	8	16	42	10	1.55	45.8	2.73	1.58	N	F
70	2010	8	2	15	31	0	1.98	55.5	1.18	1.94	Y	F, upstream and downstream waves
71	2010	8	3	5	0	54	1.89	76.7	0.10	1.74	Y	F, nice and strong, downstream waves
72	2010	8	4	7	9	21	1.48	58.2	0.07	1.38	Y	R
73	2010	8	11	9	31	47	2.44	43.7	8.22	3.85	Y	F, a lot of B fluctions downstream
74	2010	8	20	10	27	57	1.72	62.4	0.56	1.62	Y	R, downstream waves, plasma signatures
75	2010	9	12	5	26	45	1.29	46.5	1.83	1.3	Y	F, upstream waves last long
76	2010	9	15	7	18	4	1.78	40.9	22.75	1.36	Y	F
77	2010	9	28	7	16	37	1.27	51.8	4.45	1.27	N	F, B increases gradually; plasma signatures are clear; Vp increase is weak
78	2010	11	7	19	5	5	1.90	73.9	3.79	1.72	N	F, downstream waves, plasma signatures
79	2010	11	19	20	26	0	1.47	50.1	1.71	1.46	N	F, upstream waves
80	2010	12	29	11	24	11	2.20	64.4	12.44	2.1	Y	F, plasma signatures
81	2011	1	12	22	36	35	1.22	47.0	3.53	1.24	Y	F, downstream waves, small Vp and Np increase, no Tp increase
82	2011	1	17	15	46	6.2	1.38	75.1	2.02	1.28	Y	F, plasma parameters increases are not prompt
83	2011	3	6	13	38	3.25	1.31	80.2	1.06	1.23	Y	F, upstream and downstream waves, small increases of Vp and Np, no increase of Tp
84	2011	3	7	8	31	50	1.60	38.9	3.77	1.84	Y	F, upstream waves, clear plasma signatures

85	2011	3	7	12	22	46.3	1.84	80.4	3.69	1.63	Y	F, upstream and downstream waves, prompt plasma signatures
86	2011	3	20	17	17	24	1.21	34.8	1.26	1.26	N	F, increases of Vp and Np, no increase of Tp
87	2011	4	23	1	21	57	1.14	59.6	0.86	1.12	Y	F, upstream waves, B increases over 20 seconds, small increases of Vp, Np, and Tp
88	2011	4	24	11	7	21	2.17	85.7	DG	2	Y	R, upstream and downstream waves, plasma data gap
89	2011	5	12	4	45	7	1.54	30.8	3.26	2.04	Y	F, upstream and downstream waves, clear plasma signatures
90	2011	6	9	9	50	10	1.24	50.7	1.86	1.23	Y	F, upstream waves of fs/c ~ 0.6 Hz, small increases of Vp and Np, Tp does not increase
91	2011	6	16	19	36	23	1.22	51.1	1.43	1.2	Y	F, small B increase, clear plasma signatures
92	2011	6	17	2	12	23.6	1.67	69.6	0.88	1.54	Y	R, downstream waves, plasma signatures
93	2011	6	18	13	49	10	1.25	47.2	0.61	1.22	N	R, upstream waves
94	2011	7	4	23	12	10	1.35	57.8	0.90	1.3	N	F, waves at the transition region
95	2011	7	19	18	45	57	1.47	86.6	1.64	1.34	Y	F, sharp, nice plasma signatures
96	2011	8	20	21	51	46.5	1.63	70.7	0.90	1.5	Y	F, nice upstream waves, Tp decreases to pre-shock level after 10 min
97	2011	8	27	2	3	36	1.37	85.7	1.45	1.28	Y	F, weak, downstream waves, small Vp and Np increases, Tp does not increase at the time
98	2011	9	4	12	38	3.5	1.40	61.9	2.65	1.34	Y	F, upstream whistler waves, weak plasma signatures, no Tp increase
99	2011	9	21	1	26	55.5	1.38	78.8	1.55	1.29	Y	F, very close to another shock

100	2011	9	21	1	27	12.5	1.34	67.4	1.63	1.27	Y	F, weak plasma signatures, 2 B increases 17-s separated
101	2011	9	24	9	6	10	1.33	77.7	1.34	1.24	N	F, waves upstream and downstream, gradual B increase, weak plasma signatures, no Tp increase
102	2011	10	3	11	48	17	1.19	63.5	1.46	1.15	Y	F, plasma signatures, upstream and downstream waves, gradual B increase, and close to a current sheet
103	2011	10	3	22	23	25	2.13	73.0	3.90	1.96	Y	F, prominent plasma signatures, upstream and downstream waves, current sheets near by
104	2011	10	7	11	26	41.3	1.65	51.0	2.75	1.64	Y	F, clear plasma signatures, upstream waves of about 2 Hz
105	2011	10	18	19	20	10	1.42	53.0	1.13	1.37	Y	F, clear plasma signatures, upstream and downstream waves
106	2011	11	1	2	19	55	1.25	30.0	1.89	1.4	N	R, small changes of plasma parameters, gradual B decrease, some upstream waves
107	2011	11	2	22	7	39.3	1.42	79.0	1.26	1.32	N	F, clear plasma signatures, sharp B change, upstream and downstream waves
108	2011	11	6	5	10	45	1.07	29.1	0.37	1.07	Y	F, plasma signatures, upstream and downstream waves, gradual B increase, and close to a current sheet
109	2011	11	17	2	3	15	1.34	37.8	0.87	1.4	N	F, plasma signatures, after 8 min of the shock, B increases and there is a current sheet
110	2011	11	18	3	29	43.5	1.24	66.6	1.59	1.18	N	F, plasma signatures although they are small changes, B increase is sharp, B decreases after 20 minutes
111	2011	11	19	7	42	41	1.54	67.5	4.15	1.43	Y	F, prominent plasma signatures, upstream and downstream waves, a small current sheet crossing at the shock

112	2011	11	20	13	38	42.8	2.01	85.7	1.37	1.82	N	F, prominent plasma signatures, nice downstream waves
113	2011	12	2	16	3	59.7	1.73	78.8	0.45	1.58	Y	F, prominent plasma signatures, upstream and downstream waves
114	2011	12	13	4	52	19.5	1.67	69.8	0.52	1.54	Y	R, clear plasma signatures, upstream and downstream waves
115	2011	12	26	23	50	46	1.85	71.2	3.49	1.67	Y	F, clear plasma signatures, short upstream and downstream waves

¹ $B_{\text{down}}/B_{\text{up}}$: ratio of downstream magnetic field intensity to upstream magnetic field intensity

² θ_{Bn} : shock normal angle

³ β : the ratio of plasma thermal pressure to magnetic pressure upstream of the shock, assumed as 1 when there is data gap (DG)

⁴ Mach Num: magnetosonic Mach number

⁵ Y or N indicates the availability of 32-Hz MAG data for this shock

Records:

1. Revised on 13 March 2010.
2. Revised on 20 July 2010. Change: based on the updated plasma data, change the comment for the 7 May 2007 shock of STB.
3. Revised on 2 February 2011. Change: based on the updated plasma data, change the comment for the 13 Sept 2007 shock of STA.
4. Revised on 15 March 2011. Change: after moving the downstream interval closer to the shock, the shock parameters of 26 Oct 2009 at STB are changed.
5. Updated on 8 April 2011. Extend the investigation period from 31 Oct 2009 to 31 May 2010 for STA, and to 30 November 2010 for STB.
6. Revised on 31 May 2011. Extend the investigation period to the end of 2010. Some plasma data gap are filled using the reprocessed PLASTIC data. Some events are deleted because they miss the plasma signatures of shocks. If two of the three plasma parameters (V_p , N_p , and T_p) show strong shock signature, we do not require the third parameter necessarily has the signature, but we require it does not vary in the opposite way.
7. Updated on 27 Oct 2011. Extend the investigation to the end of PLASTIC data available at the time: 30 Apr 2011 for STA, 30 June 2011 for STB.
8. Add 2 Oct 2009 shock at STB.
9. On 19 Mar. 2012, extend the shock list of STB to 30 Sept. 2011.
10. On 4 Apr. 2012, add two missed shocks for STA (1/25 and 3/31), and extend the shock list of STA to 31 July 2011.
11. On 13 Apr. 2012, extend the shocks of STB to 31 Dec. 2011.
12. On 30 July 2012, extend the shocks of STA to 31 Dec. 2011.